

30-025-40442

Mewbourne Oil Co

Eddy County, New Mexico

Sec 8, T26S, R32E

Red Hills West 8 Federal Com #3H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

07 September, 2011



DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Hills West 8 Federal Com #3H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3212.0usft (Patterson #45)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3212.0usft (Patterson #45)
Site:	Sec 8, T26S, R32E	North Reference:	Grid
Well:	Red Hills West 8 Federal Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project:	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Sec 8, T26S, R32E		
Site Position:		Northing:	382,678.18 usft
From:	Map	Easting:	696,810.11 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 3' 1.821 N
		Longitude:	103° 41' 53.190 W
		Grid Convergence:	0.34 °

Well:	Red Hills West 8 Federal Com #3H		
Well Position	+N/-S	-12.0 usft	Northing:
	+E/-W	-1,359.6 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	382,666.14 usft
		Ground Level:	3,194.0 usft
		Latitude:	32° 3' 1.780 N
		Longitude:	103° 42' 8.988 W

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	9/7/2011	(°)
			7.61
			Dip Angle
			(°)
			60.00
			Field Strength
			(nT)
			48,476

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			0.96

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,284.1	0.00	0.00	8,284.1	0.0	0.0	0.00	0.00	0.00	0.00	
9,187.4	90.33	0.96	8,857.0	576.2	9.6	10.00	10.00	0.11	0.96	
13,476.9	90.33	0.96	8,832.0	4,865.0	81.3	0.00	0.00	0.00	0.00	PBHL-Red Hills West

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Site:	Sec 8, T26S, R32E	North Reference:	Grid
Well:	Red Hills West 8 Federal Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0 0	0.00	0 00	0 0	0 0	0.0	0 0	0 00	0 00	0 00
100 0	0.00	0.00	100.0	0.0	0.0	0 0	0 00	0 00	0 00
200 0	0.00	0.00	200.0	0.0	0.0	0 0	0 00	0 00	0 00
300.0	0.00	0.00	300.0	0.0	0.0	0 0	0 00	0 00	0 00
400.0	0.00	0.00	400.0	0.0	0.0	0 0	0 00	0 00	0 00
500.0	0.00	0.00	500.0	0.0	0.0	0 0	0 00	0 00	0 00
600 0	0.00	0.00	600.0	0.0	0.0	0 0	0 00	0 00	0 00
700 0	0.00	0.00	700.0	0.0	0.0	0 0	0 00	0 00	0 00
800 0	0.00	0.00	800.0	0.0	0.0	0 0	0 00	0 00	0 00
900 0	0.00	0.00	900.0	0.0	0.0	0 0	0 00	0 00	0 00
1,000 0	0.00	0.00	1,000.0	0.0	0.0	0 0	0 00	0 00	0 00
1,100 0	0.00	0.00	1,100.0	0.0	0.0	0 0	0 00	0 00	0 00
1,200 0	0.00	0.00	1,200.0	0.0	0.0	0 0	0 00	0 00	0 00
1,300 0	0.00	0.00	1,300.0	0.0	0.0	0 0	0 00	0 00	0 00
1,400 0	0.00	0.00	1,400.0	0.0	0.0	0 0	0 00	0 00	0 00
1,500 0	0.00	0.00	1,500.0	0.0	0.0	0 0	0 00	0 00	0 00
1,600 0	0.00	0.00	1,600.0	0.0	0.0	0 0	0 00	0 00	0 00
1,700 0	0.00	0.00	1,700.0	0.0	0.0	0 0	0 00	0 00	0 00
1,800 0	0.00	0.00	1,800.0	0.0	0.0	0 0	0 00	0 00	0 00
1,900 0	0.00	0.00	1,900.0	0.0	0.0	0 0	0 00	0 00	0 00
2,000 0	0.00	0.00	2,000.0	0.0	0.0	0 0	0 00	0 00	0 00
2,100 0	0.00	0.00	2,100.0	0.0	0.0	0 0	0 00	0 00	0 00
2,200 0	0.00	0.00	2,200.0	0.0	0.0	0 0	0 00	0 00	0 00
2,300 0	0.00	0.00	2,300.0	0.0	0.0	0 0	0 00	0 00	0 00
2,400 0	0.00	0.00	2,400.0	0.0	0.0	0 0	0 00	0 00	0 00
2,500 0	0.00	0.00	2,500.0	0.0	0.0	0 0	0 00	0 00	0 00
2,600 0	0.00	0.00	2,600.0	0.0	0.0	0 0	0 00	0 00	0 00
2,700 0	0.00	0.00	2,700.0	0.0	0.0	0 0	0 00	0 00	0 00
2,800 0	0.00	0.00	2,800.0	0.0	0.0	0 0	0 00	0 00	0 00
2,900 0	0.00	0.00	2,900.0	0.0	0.0	0 0	0 00	0 00	0 00
3,000 0	0.00	0.00	3,000.0	0.0	0.0	0 0	0 00	0 00	0 00
3,100 0	0.00	0.00	3,100.0	0.0	0.0	0 0	0 00	0 00	0 00
3,200 0	0.00	0.00	3,200.0	0.0	0.0	0 0	0 00	0 00	0 00
3,300 0	0.00	0.00	3,300.0	0.0	0.0	0 0	0 00	0 00	0 00
3,400 0	0.00	0.00	3,400.0	0.0	0.0	0 0	0 00	0 00	0 00
3,500 0	0.00	0.00	3,500.0	0.0	0.0	0 0	0 00	0 00	0 00
3,600 0	0.00	0.00	3,600.0	0.0	0.0	0 0	0 00	0 00	0 00
3,700 0	0.00	0.00	3,700.0	0.0	0.0	0 0	0 00	0 00	0 00
3,800 0	0.00	0.00	3,800.0	0.0	0.0	0 0	0 00	0 00	0 00
3,900 0	0.00	0.00	3,900.0	0.0	0.0	0 0	0 00	0 00	0 00
4,000 0	0.00	0.00	4,000.0	0.0	0.0	0 0	0 00	0 00	0 00
4,100 0	0.00	0.00	4,100.0	0.0	0.0	0 0	0 00	0 00	0 00
4,200 0	0.00	0.00	4,200.0	0.0	0.0	0 0	0 00	0 00	0 00
4,300 0	0.00	0.00	4,300.0	0.0	0.0	0 0	0 00	0 00	0 00
4,400 0	0.00	0.00	4,400.0	0.0	0.0	0 0	0 00	0 00	0 00
4,500 0	0.00	0.00	4,500.0	0.0	0.0	0 0	0 00	0 00	0 00
4,600 0	0.00	0.00	4,600.0	0.0	0.0	0 0	0 00	0 00	0 00
4,700 0	0.00	0.00	4,700.0	0.0	0.0	0 0	0 00	0 00	0 00
4,800 0	0.00	0.00	4,800.0	0.0	0.0	0 0	0 00	0 00	0 00
4,900 0	0.00	0.00	4,900.0	0.0	0.0	0 0	0 00	0 00	0 00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0 0	0 00	0 00	0 00
5,100 0	0.00	0.00	5,100.0	0.0	0.0	0 0	0 00	0 00	0 00
5,200 0	0.00	0.00	5,200.0	0.0	0.0	0 0	0 00	0 00	0 00
5,300 0	0.00	0.00	5,300.0	0.0	0.0	0 0	0 00	0 00	0 00

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Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
KOP: Build 10°/100'										
8,284.1	0.00	0.00	8,284.1	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	1.59	0.96	8,300.0	0.2	0.0	0.2	10.00	10.00	0.00	
8,350.0	6.59	0.96	8,349.9	3.8	0.1	3.8	10.00	10.00	0.00	
8,400.0	11.59	0.96	8,399.2	11.7	0.2	11.7	10.00	10.00	0.00	
8,450.0	16.59	0.96	8,447.7	23.8	0.4	23.9	10.00	10.00	0.00	
8,500.0	21.59	0.96	8,494.9	40.2	0.7	40.2	10.00	10.00	0.00	
8,550.0	26.59	0.96	8,540.6	60.6	1.0	60.6	10.00	10.00	0.00	
8,600.0	31.59	0.96	8,584.2	84.9	1.4	84.9	10.00	10.00	0.00	
8,650.0	36.59	0.96	8,625.6	112.9	1.9	112.9	10.00	10.00	0.00	
8,700.0	41.59	0.96	8,664.4	144.4	2.4	144.4	10.00	10.00	0.00	
8,750.0	46.59	0.96	8,700.3	179.2	3.0	179.2	10.00	10.00	0.00	
8,800.0	51.59	0.96	8,733.1	217.0	3.6	217.0	10.00	10.00	0.00	
8,850.0	56.59	0.96	8,762.4	257.4	4.3	257.5	10.00	10.00	0.00	
8,900.0	61.59	0.96	8,788.1	300.3	5.0	300.4	10.00	10.00	0.00	
8,950.0	66.59	0.96	8,809.9	345.3	5.8	345.3	10.00	10.00	0.00	
9,000.0	71.59	0.96	8,827.7	392.0	6.5	392.0	10.00	10.00	0.00	
9,050.0	76.59	0.96	8,841.4	440.0	7.3	440.1	10.00	10.00	0.00	
9,100.0	81.59	0.96	8,850.9	489.1	8.2	489.2	10.00	10.00	0.00	
9,150.0	86.59	0.96	8,856.0	538.8	9.0	538.9	10.00	10.00	0.00	
EOC: 9187' MD, 90.33° Inc., 0.96° Azm., 8857' TVD										
9,187.4	90.33	0.96	8,857.0	576.2	9.6	576.3	10.00	10.00	0.00	
9,200.0	90.33	0.96	8,857.0	588.8	9.8	588.9	0.00	0.00	0.00	
9,300.0	90.33	0.96	8,856.4	688.8	11.5	688.9	0.00	0.00	0.00	

DDC
Well Planning Report



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Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3212.0usft (Patterson #45)
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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	90.33	0.96	8,855.8	788.7	13.2	788.9	0.00	0.00	0.00
9,500.0	90.33	0.96	8,855.2	888.7	14.8	888.9	0.00	0.00	0.00
9,600.0	90.33	0.96	8,854.6	988.7	16.5	988.9	0.00	0.00	0.00
9,700.0	90.33	0.96	8,854.1	1,088.7	18.2	1,088.8	0.00	0.00	0.00
9,800.0	90.33	0.96	8,853.5	1,188.7	19.9	1,188.8	0.00	0.00	0.00
9,900.0	90.33	0.96	8,852.9	1,288.7	21.5	1,288.8	0.00	0.00	0.00
10,000.0	90.33	0.96	8,852.3	1,388.7	23.2	1,388.8	0.00	0.00	0.00
10,100.0	90.33	0.96	8,851.7	1,488.6	24.9	1,488.8	0.00	0.00	0.00
10,200.0	90.33	0.96	8,851.1	1,588.6	26.5	1,588.8	0.00	0.00	0.00
10,300.0	90.33	0.96	8,850.6	1,688.6	28.2	1,688.8	0.00	0.00	0.00
10,400.0	90.33	0.96	8,850.0	1,788.6	29.9	1,788.8	0.00	0.00	0.00
10,500.0	90.33	0.96	8,849.4	1,888.6	31.5	1,888.8	0.00	0.00	0.00
10,600.0	90.33	0.96	8,848.8	1,988.6	33.2	1,988.8	0.00	0.00	0.00
10,700.0	90.33	0.96	8,848.2	2,088.5	34.9	2,088.8	0.00	0.00	0.00
10,800.0	90.33	0.96	8,847.6	2,188.5	36.6	2,188.8	0.00	0.00	0.00
10,900.0	90.33	0.96	8,847.0	2,288.5	38.2	2,288.8	0.00	0.00	0.00
11,000.0	90.33	0.96	8,846.5	2,388.5	39.9	2,388.8	0.00	0.00	0.00
11,100.0	90.33	0.96	8,845.9	2,488.5	41.6	2,488.8	0.00	0.00	0.00
11,200.0	90.33	0.96	8,845.3	2,588.5	43.2	2,588.8	0.00	0.00	0.00
11,300.0	90.33	0.96	8,844.7	2,688.4	44.9	2,688.8	0.00	0.00	0.00
11,400.0	90.33	0.96	8,844.1	2,788.4	46.6	2,788.8	0.00	0.00	0.00
11,500.0	90.33	0.96	8,843.5	2,888.4	48.2	2,888.8	0.00	0.00	0.00
11,600.0	90.33	0.96	8,843.0	2,988.4	49.9	2,988.8	0.00	0.00	0.00
11,700.0	90.33	0.96	8,842.4	3,088.4	51.6	3,088.8	0.00	0.00	0.00
11,800.0	90.33	0.96	8,841.8	3,188.4	53.3	3,188.8	0.00	0.00	0.00
11,900.0	90.33	0.96	8,841.2	3,288.4	54.9	3,288.8	0.00	0.00	0.00
12,000.0	90.33	0.96	8,840.6	3,388.3	56.6	3,388.8	0.00	0.00	0.00
12,100.0	90.33	0.96	8,840.0	3,488.3	58.3	3,488.8	0.00	0.00	0.00
12,200.0	90.33	0.96	8,839.5	3,588.3	59.9	3,588.8	0.00	0.00	0.00
12,300.0	90.33	0.96	8,838.9	3,688.3	61.6	3,688.8	0.00	0.00	0.00
12,400.0	90.33	0.96	8,838.3	3,788.3	63.3	3,788.8	0.00	0.00	0.00
12,500.0	90.33	0.96	8,837.7	3,888.3	64.9	3,888.8	0.00	0.00	0.00
12,600.0	90.33	0.96	8,837.1	3,988.2	66.6	3,988.8	0.00	0.00	0.00
12,700.0	90.33	0.96	8,836.5	4,088.2	68.3	4,088.8	0.00	0.00	0.00
12,800.0	90.33	0.96	8,836.0	4,188.2	70.0	4,188.8	0.00	0.00	0.00
12,900.0	90.33	0.96	8,835.4	4,288.2	71.6	4,288.8	0.00	0.00	0.00
13,000.0	90.33	0.96	8,834.8	4,388.2	73.3	4,388.8	0.00	0.00	0.00
13,100.0	90.33	0.96	8,834.2	4,488.2	75.0	4,488.8	0.00	0.00	0.00
13,200.0	90.33	0.96	8,833.6	4,588.1	76.6	4,588.8	0.00	0.00	0.00
13,300.0	90.33	0.96	8,833.0	4,688.1	78.3	4,688.8	0.00	0.00	0.00
13,400.0	90.33	0.96	8,832.4	4,788.1	80.0	4,788.8	0.00	0.00	0.00
TD @ 13477' MD/8832' TVD - PBHL-Red Hills West 8 Federal Com #3H									
13,476.9	90.33	0.96	8,832.0	4,865.0	81.3	4,865.7	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-Red Hills West 8 I	0.00	0.00	8,832.0	4,865.0	81.3	387,531.15	695,531.75	32° 3' 49.920 N	103° 42' 7.713 W
- plan hits target center									
- Point									

DDC
Well Planning Report

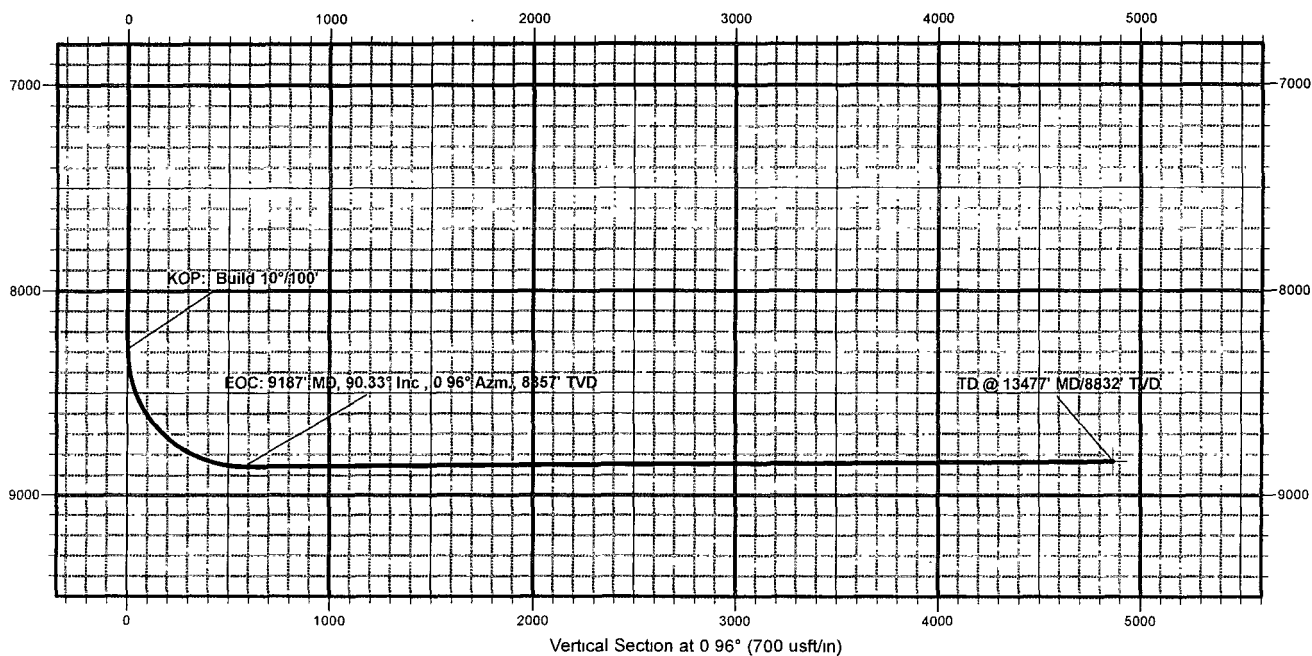


Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Hills West 8 Federal Com #3H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3212.0usft (Patterson #45)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3212.0usft (Patterson #45)
Site:	Sec 8, T26S, R32E	North Reference:	Grid
Well:	Red Hills West 8 Federal Com #3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
8,284.1	8,284.1	0.0	0.0	KOP Build 10°/100'
9,187.4	8,857.0	576.2	9.6	EOC 9187' MD, 90.33° Inc, 0.96° Azm, 8857' TVD
13,476.9	8,832.0	4,865.0	81.3	TD @ 13477' MD/8832' TVD

Mewbourne Oil Company

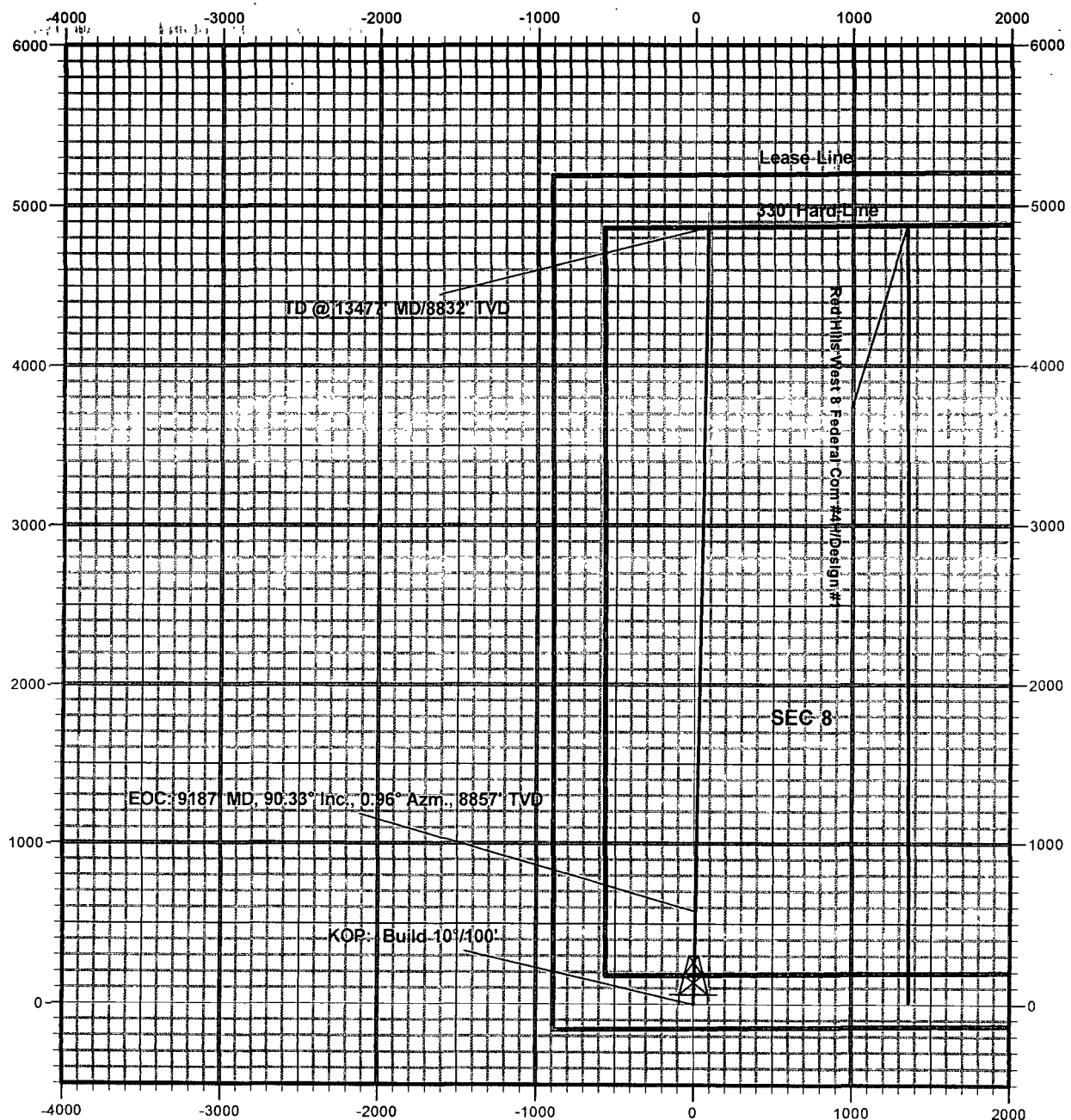
Eddy County, New Mexico
Red Hills West 8 Federal Com #3H
Design #1



Mewbourne Oil Company



Eddy County, New Mexico
Red Hills West 8 Federal Com #3H
Design #1



Mewbourne Oil Company
BOP Schematic for
12 1/4" Hole

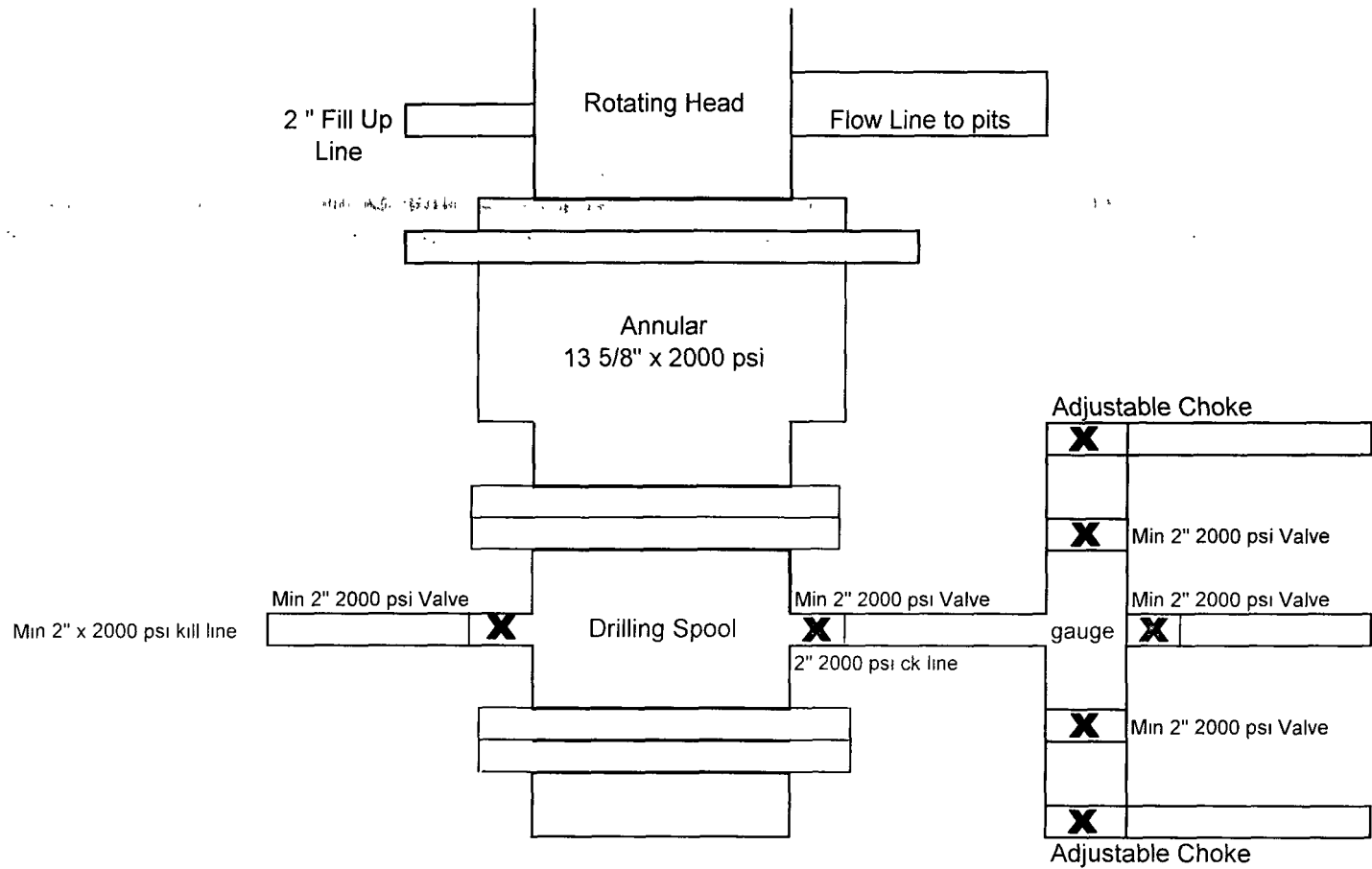


Exhibit #2

Red Hills West "8" Fed Com #3H
 150' FSL & 890' FWL
 Sec 8-T26S-R32E
 Lea, County
 New Mexico

Mewbourne Oil Company
BOP Schematic for
8 3/4" & 6 1/8" Hole

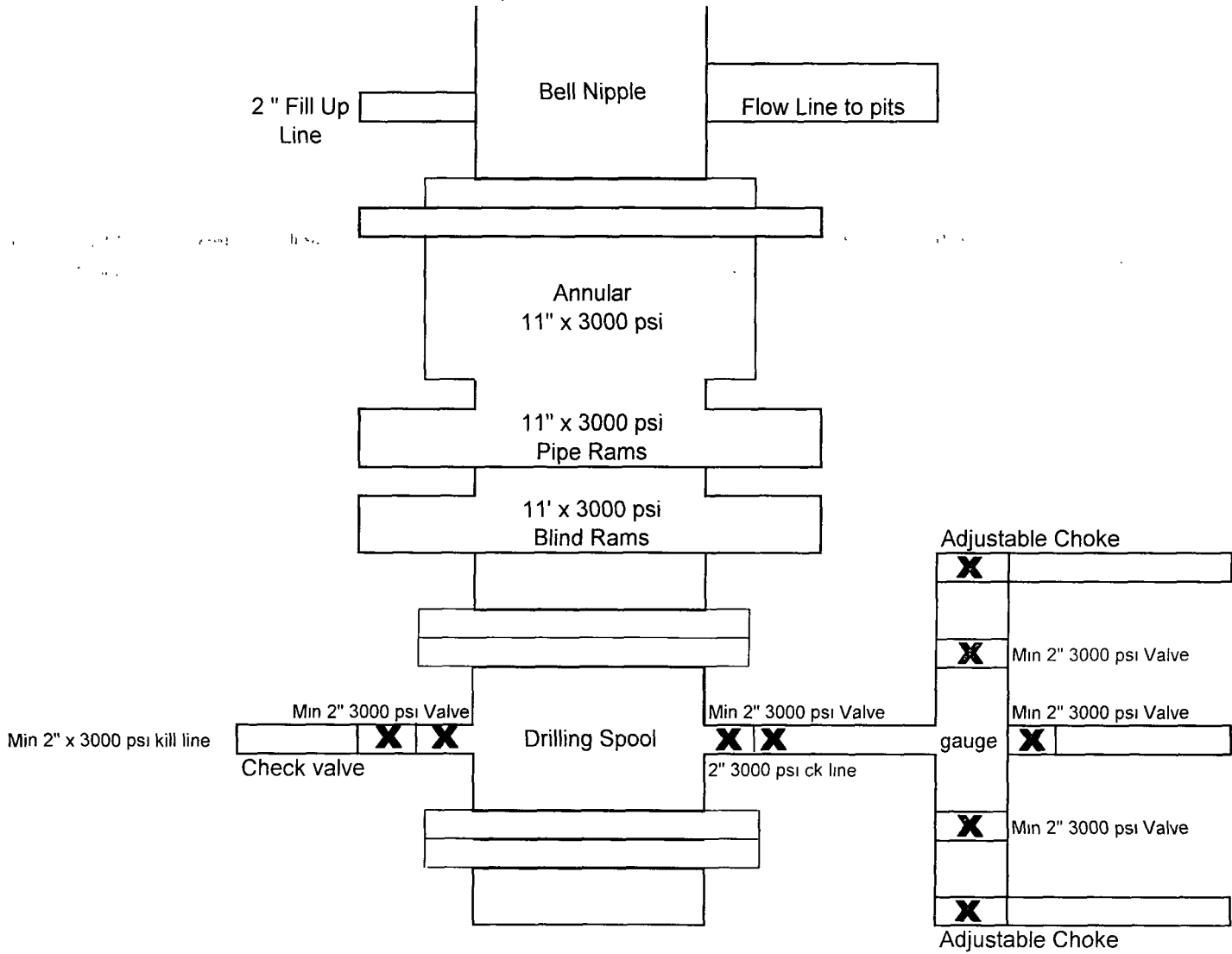


Exhibit #2

Red Hills West "8" Fed Com #3H
 150' FSL & 890' FWL
 Sec 8-T26S-R32E
 Lea, County
 New Mexico

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Red Hills West "8" Fed Com #3H

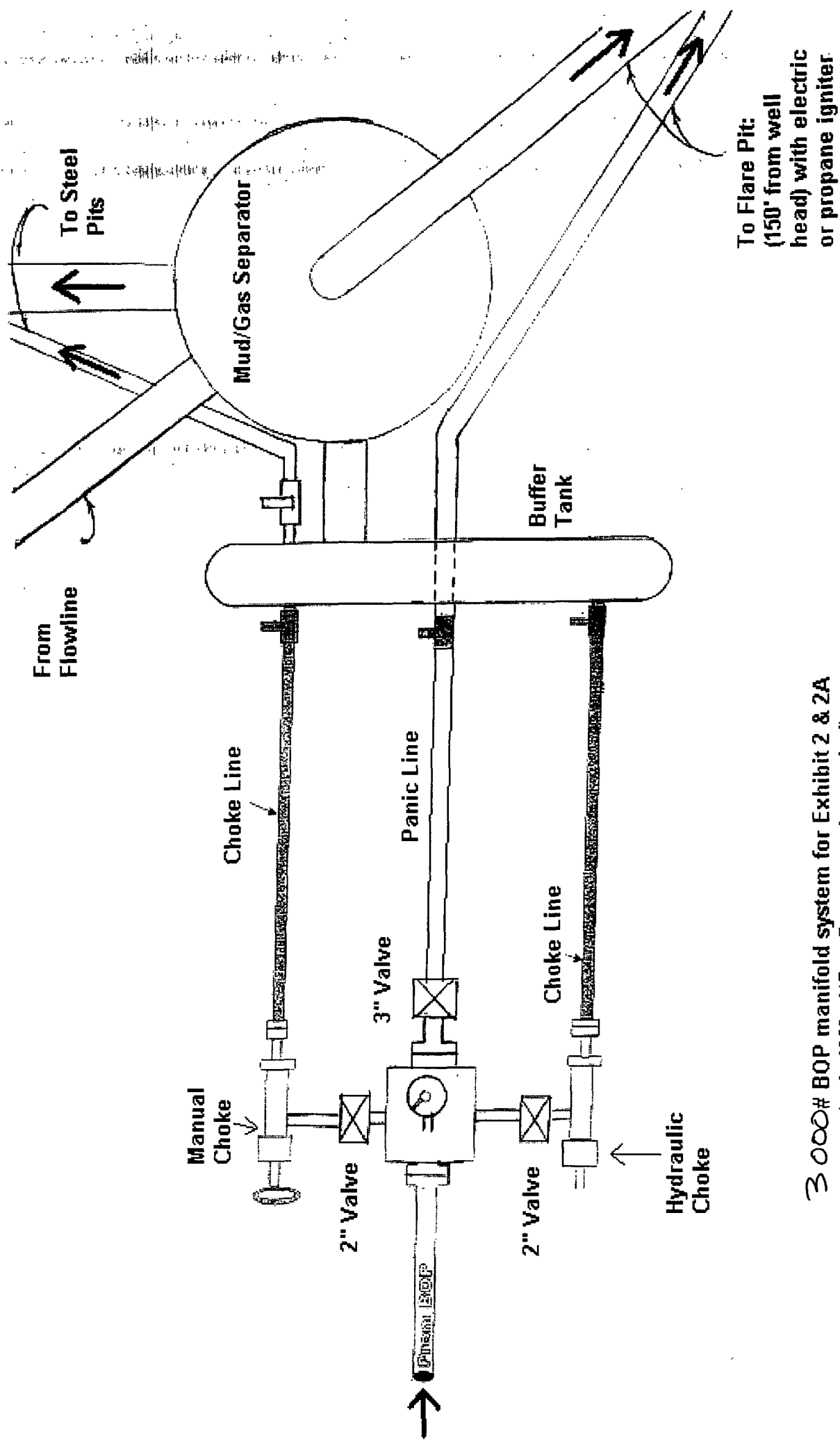
150' FSL & 890' FWL (SHL)

Sec 8-T26S-R32E

Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 2000 psi working pressure on 13 3/8" casing and 3000 psi working pressure on 9 5/8" & 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.



3000# BOP manifold system for Exhibit 2 & 2A
(only if Mud/Gas Separator is needed)

Red Hills West "8" Fed Com #3H

Closed Loop Pad Dimensions 280' x 320'

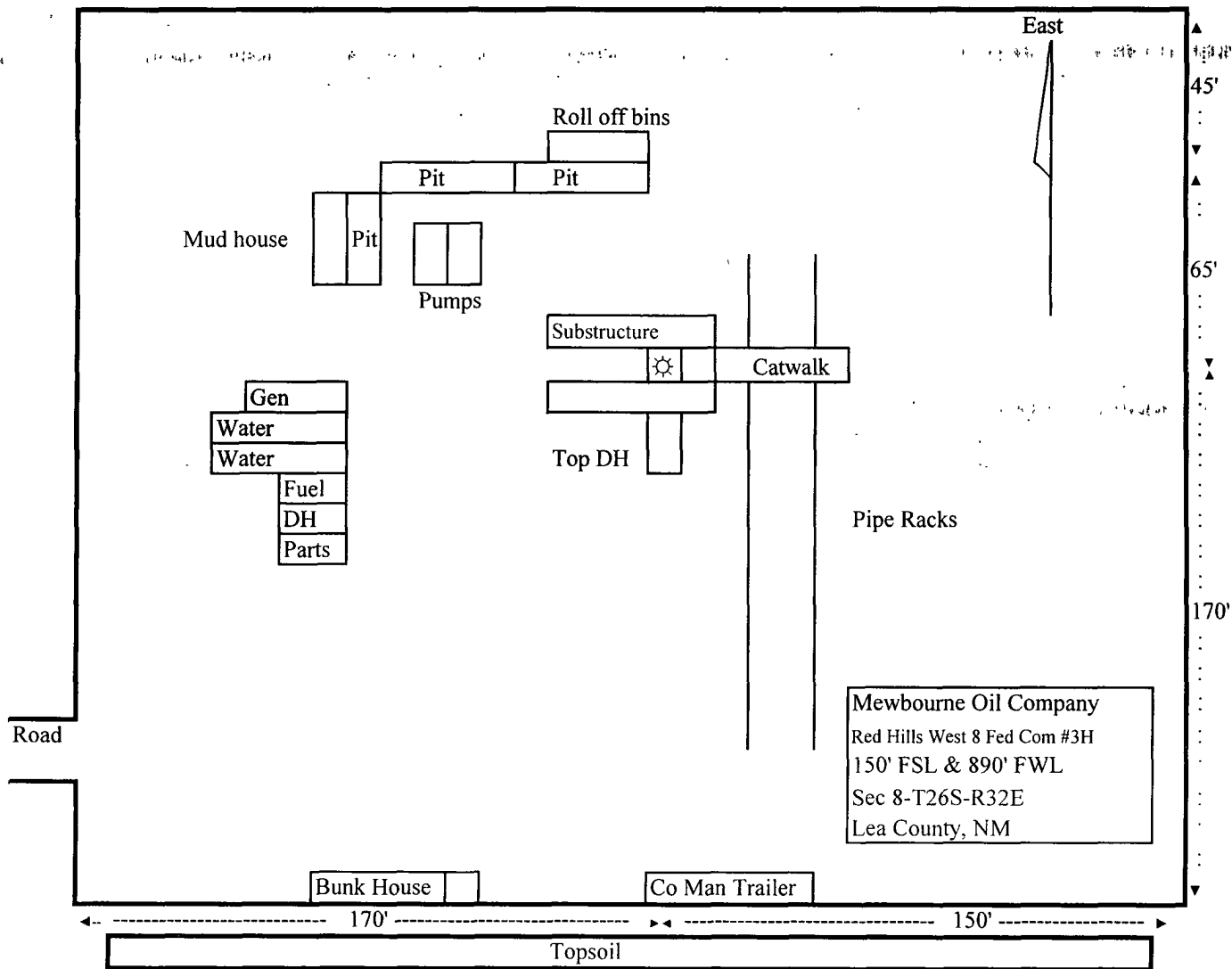


Exhibit 5